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(54) Title: SELF-ORGANIZED NANOPORE ARRAYS WITH CONTROLLED SYMMETRY AND ORDER

(57) Abstract: An ordered, single domain nanopore array having a macroscale area in a first material is provided. A method of making a nanopore arrays with a controlled pattern include providing a substrate comprising a first surface having a first patter, depositing a first material capable of forming nanopores onto said first-surface having the first pattern, and anodically oxidizing said first material to form the nanopore array with the controlled pattern in the anodically oxidized first material.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26322

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B32B 9/04, 3/26; B05D 3/02

US CL : 428/304.4, 408, 689, 702; 427/79, 126.3, 162, 331, 376.1; 205/667

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 428/304.4, 408, 689, 702; 427/79, 126.3, 162, 331; 205/667

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
USPAT/DERWENT/JPO/EPO

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X --- P, Y	US 2002/0118027 A1 (ROUTKEVITCH et al) 29 August 2002 (29.08.2002) (See entire document)	1, 2, 4, 5, 9-14, 21-23, 28 and 29 ----- 3, 6-8, 15-20, 24-27 and 30-41
A	US 6,359,288 B1 (YING et al) 19 March 2002 (19.03.2002).	1-41

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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